

SEQUENCE LISTING

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<212> DNA  
5 <213> Artificial Sequence  
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<223> Description of Artificial Sequence: Erk5-specific  
primer  
<400> 1  
10 cagccattcg atgtgggccc acgcta 26

<210> 2  
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<212> DNA  
15 <213> Artificial Sequence  
<220>  
<223> Description of Artificial Sequence: Erk5-specific  
primer  
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20 tataaacattc tcatggcgga atcgc 25

<210> 3  
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25 <213> Mus musculus  
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<221> misc\_feature  
<222> (1)..(38)  
<223> partial sequence of exon 2 from Erk5 gene  
30 <400> 3  
cggnacctac tgtgccctat ggaggaattc agatctgtgt aaggaggatgg gcccaggagga 60  
ggagacacag tcgggatcag cttagaagcc cagttcagt aatactgaag ttctggcagg 120  
gcgggtgaac ccagagtgtat gcgggctgtg agtccaggac attggtaggg acagttctta 180  
tctctcaaga gggcaagggc tggggatgtc gatcaacttgtt aggctgtatga gcatcttga 240  
35 ggttttaggt tgacttcct gtacaaaagg ggaaaaagaat caagaggatt tacctcttta 300  
tggtcatgcc acctttggtt atatcataag ttcaaggcta gtctagaccc tggccaaaa 360  
gacaaaacan aaaaaccnaaa cagcaatnta nganaaggga gagagggcnc agacngnccg 420  
ggacagatcc aaattgtaaag acaacggaca caatacattt tagtgtcaca cagcagtgtc 480  
ctcatggcag acaactaatt attcacagaa tacccctta aaaatagagt cttcaacata 540

gcttttcag tagctgttgg caaactgttag agtttgctct aaaattaacc atactggcca 600  
atcttggtag atttgaatat ttctataaaa aaaatttttt ttgacagaaa ttangtccat 660  
ggagaaaagtg atttgcaga aagcttgtaa aaaagttgg ggctnggaaa aaacccgatt 720  
cggtgattaa gatcactcga tctttaaaaa gggacttggc tttaantncc ataatgnct 780  
5 ttcaccgggg ggcntaaact tt 802

<210> 4  
<211> 794  
<212> DNA  
10 <213> Mus musculus  
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<221> misc\_feature  
<222> (1)..(794)  
<223> Partial sequence of 3' Erk5-specific primer  
15 <220>  
<221> misc\_feature  
<222> (547)..(794)  
<223> Partial sequence of exon 3 from the Erk 5 gene  
<400> 4  
20 gattnaagat cccctcgatn tttnaaaagg acttggnttc aagggaanag ngtntnnncg 60  
gggnnaact tgaattggga cnccgggttt gggatcanac tcccttttngcctctgt 120  
naccaggc acccaagtag tacacatacg ttcaggaaan catacacata cgtttaagaa 180  
aactttataa aagttgtggc cagnccgggttgg tggcgcattgc cttaatccc agcactgggg 240  
aggcagagggc aggcatctt cttgagttt gggtttggg ccaacctgggtt ctacaagagc 300  
25 aagcaagttc caggccagat aaggctacac agacatcttgc tcttgaaaaa aagaaagaaa 360  
gaatgaaaagt tgttagaaaac ctaaaacccg gtgnnaant ccncncttcc catgntgtta 420  
gtcctttggg gtttcaactgt aaggccataa cctcaggaat tgggagtgcc aggggacgga 480  
gtgccagggg gggcttctcc ctgtgatgtg aggaggctag ctcacccgtt tcttcccatt 540  
ttcagctatg tggtactgga cctcatggag agcgacctac accagatcat tcactttca 600  
30 cagccgctca ccctggaaaca tgtgagatac ttccctgtacc agctgcttcg gggcctcaaa 660  
tacatgcact ctgctcaggt catccaccgt gatcttaaac cctctaacct tctggtcaat 720  
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35 <210> 5  
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<221> misc\_feature  
<222> (1)..(632)  
<223> Partial sequence of Erk5 probe  
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5 caatcacggg tntnagntca ggntcaagca tggtgccaaat gntgagaggc nactccatgg 60  
cacagttcca cttgagccca gggatggcat ctcaacatct ggacacacag gctcaactgc 120  
cacaggctgc ananaaagntg gaacgnattg ttgnncgaatg ccctccngtc gtgcataaaa 180  
gtcttcattc tcagccacaa tggcctcctt aatgcgcgtcc ctggtaaggg cttcacgggt 240  
caaaaagaaaaa gtcaaaaaggt ggggcccgaat caggtcatac atcagggtca tggtaacttag 300

10 ccagaagggg tgcaaggca gcagcagtna gattcggcn ctgggttcaa ntgcaccat 360  
gcgtcccagc agggagaggg cctggcggtc agcacctggg tataactgtct cccaaggcac 420  
aggttgcctt ggtggcagggc tctggatata ggctcgcacc ctttcagcccc ccacagcctg 480  
aatcacagct ggtgacggag ttcccaacac catcatgatc agctgttaact ggtgcacgta 540  
gtttttgcct gggaaagagct ggcgccgagc cagcatactca ccaaagatgc agcccacaga 600

15 ccagaggtcg attgcctgcg gtataactcgt gc 632

<210> 6  
<211> 617  
<212> DNA

20 <213> *Mus musculus*  
<220>  
<221> misc\_feature  
<222> (456)..(617)  
<223> partial sequence of *NheI-EcoRI* fragment in targeting construct

25 <221> misc\_feature  
<222> (456)..(617)  
<223> partial sequence of exon2 from the Erk 5 gene  
<400> 6

ggcaggtacc gcgttagnac cnnttatcng aaccnnntgt ttntcncagn nnagcnntat 60  
30 ttaaccttgn aaanagtttt tccctgaggc caagatagca natangctcn nnngagnncn 120  
aaaaaaagttt tgttctaaga ccanngaatn ggcagaatga agtggngaaan gattagggag 180  
antctggaat gacctnanta tggtgagtag gaagggaaaga aggtcagtt aatncagtca 240  
caancnnntg ctaactaacg ngcctcctnt ttatgttaagc nattagcanc ngtttcnnga 300  
ggcagttgga aattaaaatn ttgatatatg ttacacacag ggcctgcac cacagttaggg 360  
35 acttnatgnn ntntgggnnc cagaagagaca gtgctgaagg gacctgcagc taacttgaag 420  
gtactctctg gtatatgccc ttttcctgct ccccaggcca gcaggtggcc atcaagaaga 480  
tacctaattgc ttttgatgtg gtgaccaatg ccaaacggac cctcagggag ctgaagatcc 540  
tcaaacactt caaacacgac aatatcatcg ccatcaagga catcctgaag cctactgtgc 600  
cctatggaga attcttc 617